

METHOD AND APPARATUS FOR DETERMINING NETWORK TOPOLOGY IN A PEER-TO-PEER NETWORK

ABSTRACT

One embodiment of the present invention provides a system that facilitates determining the network topology in a peer-to-peer network. The system operates by performing a tracerouting operation to obtain a traceroute from a first client to a directory server, wherein a traceroute describes a path through which a packet travels between the first client and the directory server, including addresses of the routers through which the packet travels. Next, the system sends the traceroute to the directory server from the first client. The directory server then uses the traceroute to build a router graph that represents the topology of the peer-to-peer network.